

IN THE CLAIMS:

Please amend the following claims:

01
1. (AMENDED) An object detection system for a vehicle comprising:
an emitter mounted to transmit a signal within a defined field, said defined field adjacent
a closure path of a moveable closure member;
a receiver to receive said signal as transmitted within said defined field; and
a controller in communication with said receiver, said controller operable to construct a
map signature of said signal received by said receiver, said map signature having a first graphical
shape representative of known obstructions normally within said defined field, said first
graphical shape representative of said defined field when said defined field is clear of unknown
objects, said controller operable to construct a second graphical shape in response to an unknown
object entering within said defined field, variation from said first graphical shape indicative of
said unknown object.

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2. (AMENDED) A moveable closure assembly comprising:
a moveable closure member moveable through a closure path;
an emitter mounted to transmit a signal within a defined field, said defined field adjacent
said closure path;
a receiver to receive said signal as transmitted within said defined field; and
a controller in communication with said receiver, said controller operable to construct a
map signature of said signal received by said receiver, said map signature having a first graphical
shape representative of known obstructions normally within said defined field such that insertion
of an unknown object within said defined field produces a variation from said first graphical
shape.

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¹⁶
~~14.~~ (AMENDED) A method of detecting an object in a moveable closure path comprising the steps of:

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- (1) transmitting a signal within a defined field, said defined field adjacent a closure path of a moveable closure member;
 - (2) receiving said signal as transmitted within said defined field;
 - (3) mapping said signal received in said step (2) as a first graphical shape representative of known obstructions normally within said defined field; and
 - (4) identifying a variation in said graphical shape of said step (3).

¹¹
~~18.~~ (NEW) The system as recited in claim 1, wherein said first graphical shape is altered as said moveable closure member moves through said defined field.

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~~19.~~ (NEW) The system as recited in claim 9, wherein said first graphical shape is altered as said moveable closure member moves through said defined field.

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~~20.~~ (NEW) A method as recited in claim ~~14~~¹⁶, further comprising the step of altering said first graphical shape in response to said moveable closure member moving through said defined field.

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